

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER No. 89-029

SITE CLEANUP REQUIREMENTS FOR:

ICORE INTERNATIONAL
170/180 NORTH WOLFE ROAD FACILITY
SUNNYVALE, SANTA CLARA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region (hereinafter called the Board) finds that:

1. Icore International, hereinafter called the discharger, has been manufacturing and assembling flexible harness systems at a facility located on 170/180 North Wolfe Road in Sunnyvale, Santa Clara County from 1971 to present. The discharger operates the facility pursuant to a lease with August M. Hageman, et al., who is the current property owner, and has owned the property since 1982.
2. Subsurface investigations conducted onsite by the discharger have revealed organic chemicals in soil and groundwater beneath the site. Chemicals detected onsite include trichloroethylene (TCE), trans-1,2-dichloroethylene (DCE), 1,1,1-trichloroethane (TCA), perchloroethylene (PCE), and 1,1,2-trichloro-1,2,2-trifluoroethane (Freon 113).
3. Pollutant soil concentrations were as high as 2800 parts-per-billion (ppb) and 2200 ppb for TCE at the 5- and 10-foot depths respectively in a boring near the common property boundary with Sola/Barnes-Hind. The discharger intends to use vacuum extraction to cleanup soils in this area of the facility.
4. Groundwater upgradient of the facility is polluted with organic chemicals at levels as high as 1600 ppb of TCE. Soil gas containing 54,000 ppb of TCE has also been detected upgradient of the vicinity where 1600 ppb of TCE was detected in the groundwater. Levels of TCE as high as 420 ppb have been detected beneath the facility. Further evaluation is needed to determine the extent, if any, that onsite soil contamination has contributed to the groundwater pollution beneath the facility.
5. The Regional Board adopted a revised Water Quality Control Plan for the San Francisco Bay Basin (Basin Plan) on December 17, 1986. The Basin Plan contains water quality objectives and beneficial uses for South San Francisco Bay and contiguous surface and groundwaters.

6. The existing and potential beneficial uses of the groundwater underlying and adjacent to the facility include:
 - a. Industrial process water supply
 - b. Industrial service supply
 - c. Municipal and Domestic supply
 - d. Agricultural supply
7. The discharger threatens to cause or permit waste to be discharged or deposited where it is or probably will be discharged to waters of the State and creates or threatens to create a condition of pollution or nuisance.
8. The Board intends to revise this Order in the future to name the current property owner as a discharger. In addition, Terrence J. Rose, Inc. and Sola Optical U.S.A., Inc. are known to have been owners and/or operators of facilities at the property. If additional information comes to light showing that either of these parties caused or permitted any waste to be discharged or deposited on the site where it entered or could have entered into the waters of the State, the Board will consider adding that party's name to this Order.
9. This action is an Order to enforce the laws and regulations administered by the Board. This action is categorically exempt from the provisions of the CEQA pursuant to Section 15321 of the Resources Agency Guidelines.
10. The Board has notified the discharger, the current property owner, and interested agencies and persons of its intent under California Water Code Section 13304 to prescribe Site Cleanup Requirements for the discharge and has provided them with the opportunity for a public hearing and an opportunity to submit their written views and recommendations.
11. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED, pursuant to Section 13304 of the California Water Code, that the discharger shall cleanup and abate the effects described in the above findings as follows:

A. PROHIBITIONS

1. The discharge of wastes or hazardous materials in a manner which will degrade water quality or adversely affect the beneficial uses of the waters of the State is prohibited.
2. Significant migration of pollutants through subsurface transport to waters of the State is prohibited.

3. Activities associated with the subsurface investigation and cleanup which will cause significant adverse migration of pollutants are prohibited.

B. SPECIFICATIONS

1. The storage, handling, treatment or disposal of polluted soil or groundwater shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
2. The discharger shall conduct monitoring activities as needed to define the current local hydrogeologic conditions, and the lateral and vertical extent of soil and groundwater pollution from the Icore International site. Should monitoring results show evidence of plume migration, additional plume characterization will be required.

C. PROVISIONS

1. The discharger shall submit to the Board technical reports on self-monitoring work performed according to a program prescribed by or amended by the Board's Executive Officer.
2. The discharger shall comply with Prohibitions A.1., A.2., and A.3., and Specifications B.1. and B.2. above, in accordance with the following time schedule and tasks:

COMPLETION DATE/TASK:

- a. COMPLETION DATE: April 28, 1989

TASK: SOIL REMEDIATION DESIGN:

Submit a technical report acceptable to the Executive Officer containing a soil remediation system design and implementation schedule for the common property boundary with Sola/Barnes-Hind.

- b. COMPLETION DATE: July 30, 1989

TASK: "A" AQUIFER GROUNDWATER POLLUTION CHARACTERIZATION:

Submit a technical report acceptable to the Executive Officer which defines and includes the results of work performed to complete the vertical

and horizontal characterization of the extent of groundwater pollution in the "A" aquifer existing at the discharger's facility. This technical report should include: 1) the results of a potential conduit study, 2) a summary and evaluation of all information the discharger has collected to date regarding "A" aquifer groundwater pollution, 3) the results of an evaluation of the soil conditions in the northwestern area of the site to determine whether that area may be a source of groundwater pollution, and 4) an evaluation of the extent to which soil contamination beneath the facility may have contributed or may be contributing to groundwater pollution.

c. COMPLETION DATE: August 30, 1989

TASK: PROPOSAL FOR FURTHER REMEDIAL ACTION AT THE FACILITY:

Submit a technical report acceptable to the Executive Officer containing a proposal and schedule for further remedial action at the facility. This report should be based on the technical report submitted for Task C.2.b. If this proposal includes the extraction of groundwater, the proposal shall describe the treatment and discharge of such extracted groundwater.

3. Any proposal for the discharge of extracted groundwater included in the technical report required in Task C.2.c. must initially consider the feasibility of reclamation, reuse, or discharge to a publicly owned treatment works (POTW), as specified in Board Resolution No. 88-160. If it can be demonstrated that reclamation, reuse, or discharge to a POTW is technically and economically unfeasible, a proposal for discharge to surface water shall be considered. Such proposal for discharge to surface water shall include a completed application for an NPDES permit.
4. The discharger shall submit chemical analytical results from groundwater and soil sampling conducted pursuant to this Order within 7 days of receipt by the discharger. Such results shall clearly indicate all sampling locations.

5. If the discharger is delayed, interrupted or prevented from meeting one or more of the completion dates specified in this Order, the discharger shall promptly notify the Executive Officer. In the event of such delays, the Board may consider modification of the task completion dates established in this Order.
6. Technical reports on compliance with the Prohibitions, Specifications, and Provisions of this Order shall be submitted monthly to the Board commencing with the February 1989 report due on March 15, 1989. Continuing on a monthly basis thereafter, these reports shall consist of a brief letter report that, (1) summarizes work completed since submittal of the previous report, and work projected to be completed by the time of the next report, (2) identifies any obstacles which may threaten compliance with the schedule of this Order and what actions are being taken to overcome these obstacles, and (3) includes, in the event of non-compliance with Provisions of this Order, written notification which clarifies the reasons for non-compliance and which proposes specific measures and a schedule to achieve compliance. This written notification shall identify work not completed that was projected for completion, and shall identify the impact of non-compliance on achieving compliance with the remaining requirements of this Order.
7. In addition to the monthly report required in C.6, the discharger shall submit a quarterly technical report commencing with a report for the quarter ending March 31, 1989, due April 15, 1989. The quarterly technical report shall include, but need not be limited to, updated water table and piezometric water level measurements and chemical results of all monitoring wells and any extraction wells, cross-sectional geological maps describing the hydrogeological setting of the site, a detailed base map showing the location of all monitoring wells and extraction wells as well as identifying adjacent facilities and structures.
8. All hydrogeological plans, specifications, reports, and documents shall be signed by or stamped with the seal of a registered geologist, engineering geologist or professional engineer.
9. All samples shall be analyzed by State certified laboratories or laboratories accepted by the Board using approved EPA methods for the type of analysis to be performed. All laboratories shall maintain quality assurance/quality control records for Board review.

10. The discharger shall maintain in good working order, and operate, as efficiently as possible, any facility or control system installed to achieve compliance with the requirements of this Order.
11. Copies of all correspondence, reports, and documents pertaining to compliance with the Prohibitions, Specifications, and Provisions of this Order, shall be provided to the following agencies:
 - a. Santa Clara Valley Water District
 - b. Santa Clara County Health Department
 - c. City of Sunnyvale
 - d. Department of Health Services/TSCD

The Executive Officer may additionally require copies of correspondence, reports and documents pertaining to compliance with the Prohibitions, Specifications, and Provisions of this Order to be provided to the U.S. Environmental Protection Agency, Region IX, and to a local repository for public use.

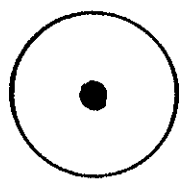
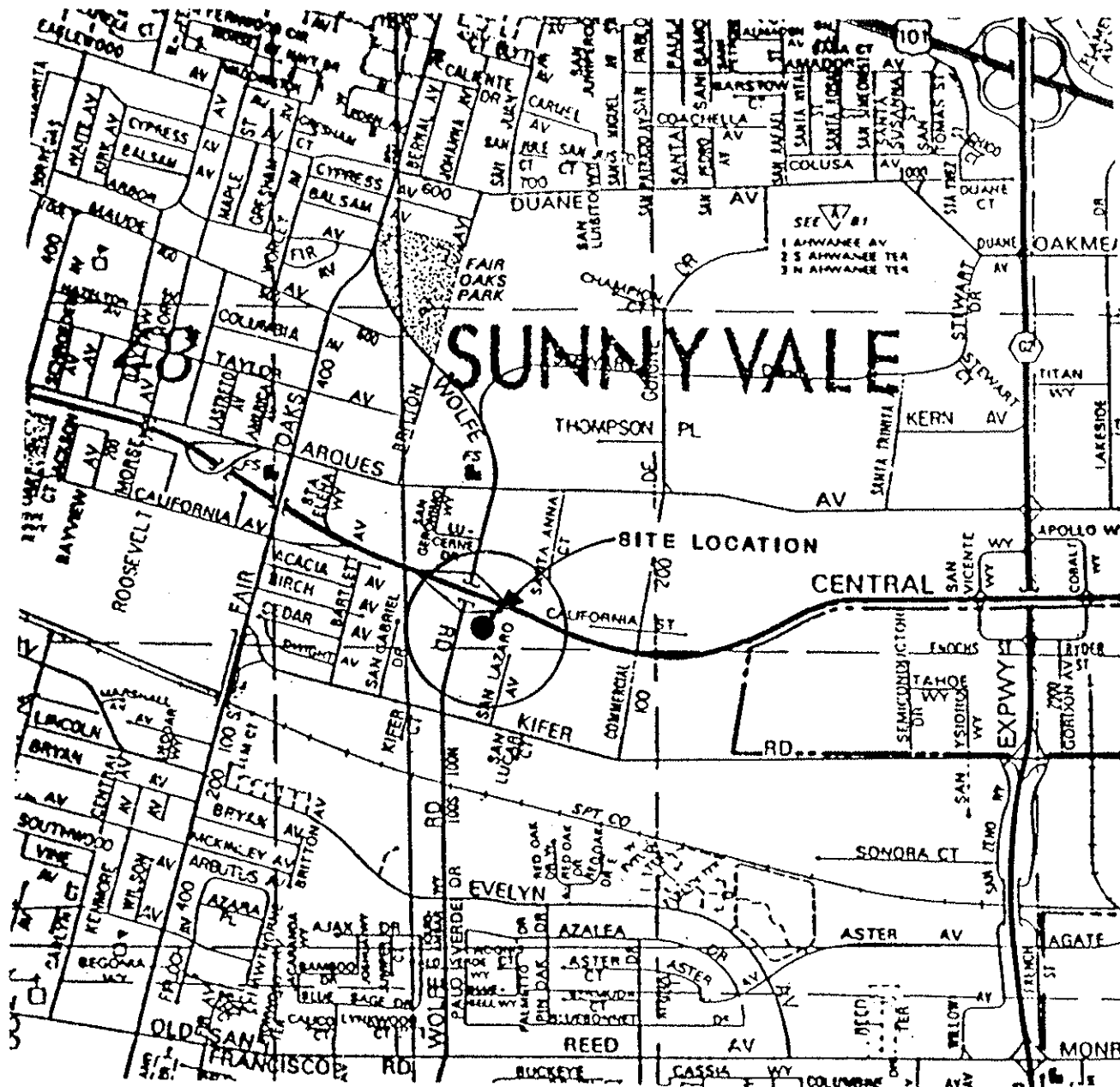
12. The discharger shall permit the Board or its authorized representative, in accordance with Section 13267(c) of the California Water Code:
 - a. Entry upon premises in which any pollution sources exist, or may potentially exist, or in which any required records are kept, which are relevant to this Order.
 - b. Access to copy any records required to be kept under the terms and conditions of this Order.
 - c. Inspection of any monitoring equipment or methodology implemented in response to this Order.
 - d. Sampling of any groundwater or soil which is accessible, or may become accessible, as part of any investigation or remedial action program undertaken by the discharger.
13. To the extent discharger becomes aware of any such information, the discharger shall file a report on any changes in site occupancy and ownership associated with the facility during the effect of this Order.

14. If any hazardous substance is discharged in or on any Waters of the State, or discharged and deposited where it is, or probably will be discharged in or on any Waters of the State, the discharger shall report such a discharge to this Regional Board, at (415) 464-1255 on weekdays during office hours from 8 a.m. to 5 p.m., and to the Office of Emergency Services at (800) 852-7550 during non-office hours. A written report shall be filed with the Regional within five (5) working days and shall contain information relative to: the nature of waste or pollutant, quantity involved, duration of incident, cause of spill, Spill Prevention, Control and Countermeasure Plan (SPCC) in effect, if any, estimated size of affected area, nature of effects, corrective measures that have been taken or planned, and a schedule of these activities, and persons notified.
15. The Board will review this Order periodically and may revise the requirements when necessary.

I, Steven R. Ritchie, Executive Officer, do hereby certify that the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on February 15, 1989.

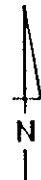
A handwritten signature in dark ink, appearing to read "Steven R. Ritchie", is written over a horizontal line.

Steven R. Ritchie,
EXECUTIVE OFFICER



LEGEND:

SITE LOCATION



STATE OF CALIFORNIA
REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

LOCATION MAP

ICORE INTERNATIONAL INC.
180 NORTH WOLFE ROAD FACILITY
SUNNYVALE, SANTA CLARA COUNTY

DRAWN BY: MYM DATE: 12/27/88 DRWG. NO. 007